

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: August 28, 2003

ATTY DOCKET NO.  
2003\_1239SERIAL NO.  
NEW

10/649677

APPLICANT  
Andreas ABEL et al.FILING DATE  
August 28, 2003GROUP  
2878

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SL	AA	5,738,825	4/1998	Rudigier et al.	—	—	
SL	AB	5,082,629	1/1992	Burgess, Jr. et al.	—	—	
SL	AC	5,779,978	7/1998	Hartmann et al.	—	—	
SL	AD	5,478,755	12/1995	Attridge et al.	—	—	
SL	AE	5,841,143	11/1998	Tuma et al.	—	—	
SL	AF	5,006,716	4/1991	Hall	—	—	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SL	AG	0 455 067	11/1991	EP	—	—	
SL	AH	44 10 258	10/1994	DE	—	—	
SL	AI	2 276 635	10/1994	GB	—	—	
SL	AJ	99/13320	3/1999	WO	—	—	
SL	AK	98/21571	5/1998	WO	—	—	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

SL	AL	K. Tiefenthaler, W. Lukosz, "Sensitivity of Grating Couplers as Integrated-Optical Chemical Sensors", J. OPTICAL SOCIETY OF AMERICA, Switzerland, Vol. 6, No. 2, (1989), pp. 209-220
SL	AM	W. Lukosz, Ph. M. Nellen, Ch. Stamm, P. Weiss, "Output Grating Couplers on Planar Waveguides as Integrated, Optical Chemical Sensors", SENSORS AND ACTUATORS, B1, Switzerland, pp 585-588 (1990)
SL	AN	T. Tamir, S. T. Peng, "Analysis and Design of Grating Couplers", APPLIED PHYSICS, 14, New York, pp. 235-254 (1977)
SL	AO	Y. Zhou, P. J. R. Laybourn, J.V. Magill & R. M. De La Rue, "An Evanescent Fluorescence Biosensor Using Ion-Exchanged Buried Waveguides and the Enhancement of Peak Fluorescence*", BIOSENSORS & BIOELECTRONICS 6, United Kingdom, (1991), pp. 595-607
SL	AP	Don S. Goldman, P. L. White, and N.C. Anheier, "Miniaturized Spectrometer Employing Planar Waveguides and Grating Couplers for Chemical Analysis", APPLIED OPTICS, Vol. 29, No. 31 (1990), pp. 4583-4589

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8/5/04

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SL	AA	4,649,280	3/1987	Holland et al.	—	—	
SL	AB	5,081,012	1/1992	Flanagan et al.	—	—	
SL	AC	5,445,934	8/1995	Fodor et al.	—	—	
SL	AD	5,101,459	3/1992	Sunagawa	—	—	
SL	AE	5,455,178	10/1995	Fattinger	—	—	
SL	AF	5,577,137	11/1996	Groger et al.	—	—	

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SL	AG	90/06503	6/1990	WO	—	—	
SL	AH	91/10122	7/1991	WO	—	—	
SL	AI	95/33197	12/1995	WO	—	—	
SL	AJ	95/33198	12/1995	WO	—	—	
SL	AK	95/03538	2/1995	WO	—	—	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

SL	AL	R. Ludwig, "Integrated Optical Components in Substrate Glasses <sup>1</sup> ", GLASTECHNISCHE BERICHTE, Vol. 62, No. 8, pp. 285-297, (1989)
SL	AM	R. E. Kunz, "Totally Integrated Optical Measuring Sensors", SPIE, CHEMICAL, BIOCHEMICAL AND ENVIRONMENTAL FIBER SENSORS III, (1991), Vol. 1587, pp. 98-113
SL	AN	D. Rosenblatt et al., "Resonant Grating Waveguide Structures", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 11, (1997), pp. 2038-2059
SL	AO	W. C. W. Chan and S. Nie, "Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection", SCIENCE, Vol. 281, (1998), pp. 2016-2018
SL	AP	R. E. Kunz, J. Edlinger et al., "Grating Couplers in Tapered Waveguides for Integrated Optical Sensing", in Proc. SPIE, Vol. 2068, (1994), pp. 313-325

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DATE CONSIDERED

8/3/04

Sheet 3 of 3				FORM PTO 1449 (modified)		ATTY DOCKET NO. 2003_1239		SERIAL NO. NEW 10/649677		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: August 28, 2003				APPLICANT Andreas ABEL et al.				FILING DATE August 28, 2003		GROUP 2878
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
SL	AA	6,078,705	6/2000	Neuschafer et al.	—	—				
	AB									
	AC									
	AD									
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	AH									
	AI									
FOREIGN PATENT DOCUMENTS										
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO			
SL	AJ	94/27137	11/1994	WO	—	—				
SL	AK	96/35940	11/1996	WO	—	—				
	AL									
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)										
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	AP									
	AQ									
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.